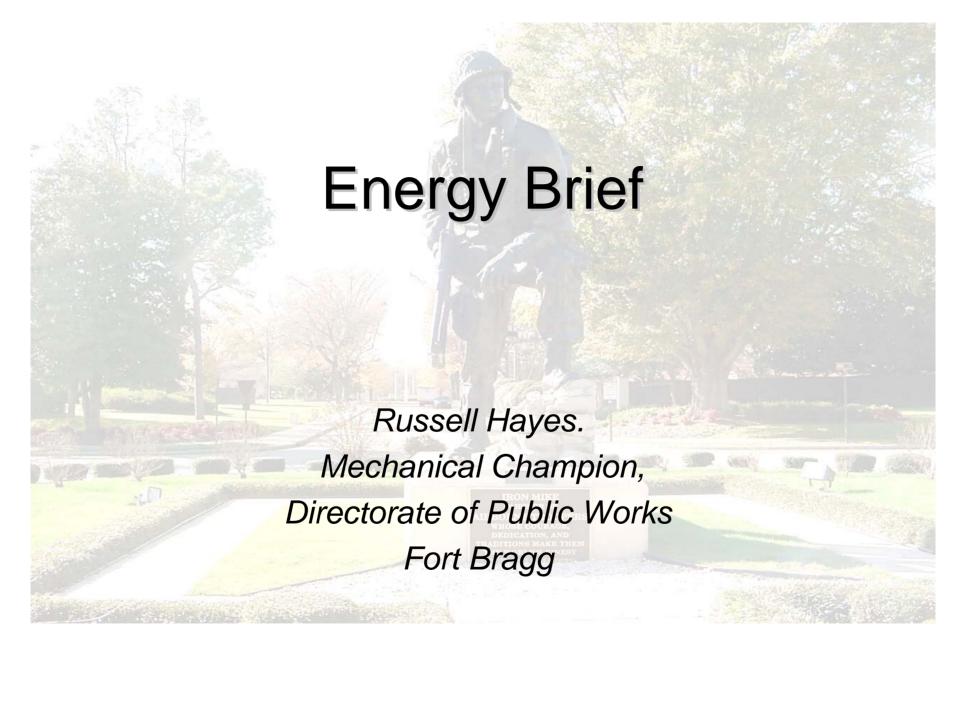


Home of the Airborne & Special Operations



FORT BRAGG - "More Than A City"

Size: 251 Square Miles (160,770 Acres)

- Buildings: 31.1M SF
- Shopping Centers: 11
- Restaurants: 28
- Railroad Lines: 19 miles
- Roads and Utilities
 - 1,442 Lane Miles Paved Roads
 - Utilities: Water, Waste Water,
 Electricity, Natural Gas
- IT Structure
 - 667 miles fiber optic cable
 - 11,359 miles copper cable
- Simmons Army Airfield: 579 Acres
- Camp Mackall: 7,934 Acres
- Museums: 3

- Hospital: 1
 - Medical Clinics: 14
 - Dental Clinics: 6
- Schools
 - Elementary: 7
 - Junior High/Middle: 2
- Army Family Housing
 - 4,744 On-Post
 - 250 Off-Post
 - (Approximately 27,000 Soldiers Reside Off-Post)
- Churches: 11
- Consolidated Library: 1
- Child Care Centers: 4
- Recreational Facilities: 239

Total Population Supported: 241, 388

FORT BRAGG POPULATION

Fort Bragg Demographic Profile	Number
Active Duty Military (Includes Active AR & NG)	52,280
Annual Reserve Components	9,503
Temporary Duty Students	3,121
Mobilized Soldiers Assigned	2,742
Civilian Employees (APF, NAF, Contract)	8,757
Contractors	3,516
Active Duty Family Members	62,962
Retirees & Family Members	98,507
Total Population Supported	241,388

21 Years Of MCA Construction

FY 85	\$ 108,100,000
FY 86	\$ 65,100,000
FY 87	\$ 23,700,000
FY 88	\$ 37,000,000
FY 89	\$ 36,800,000
FY 90	\$ 59,600,000
FY 91	\$ 53,000,000
FY 92	\$ 65,900,000
FY 93	\$ 12,700,000
FY 94	\$ 202,775,000
FY 95	\$ 135,505,000
FY 96	\$ 60,035,000
FY 97	\$ 143,687,000
FY 98	\$ 58,306,000
FY 99	\$ 147,340,000
FY 00	\$ 75,724,000
FY 01	\$ 159,762,000
FY 02	\$ 198,135,000
FY 03	\$ 195,860,000
FY 04	\$ 148,900,000
FY 05	\$ 182,700,000
TOTAL	\$ 2,170,629,000

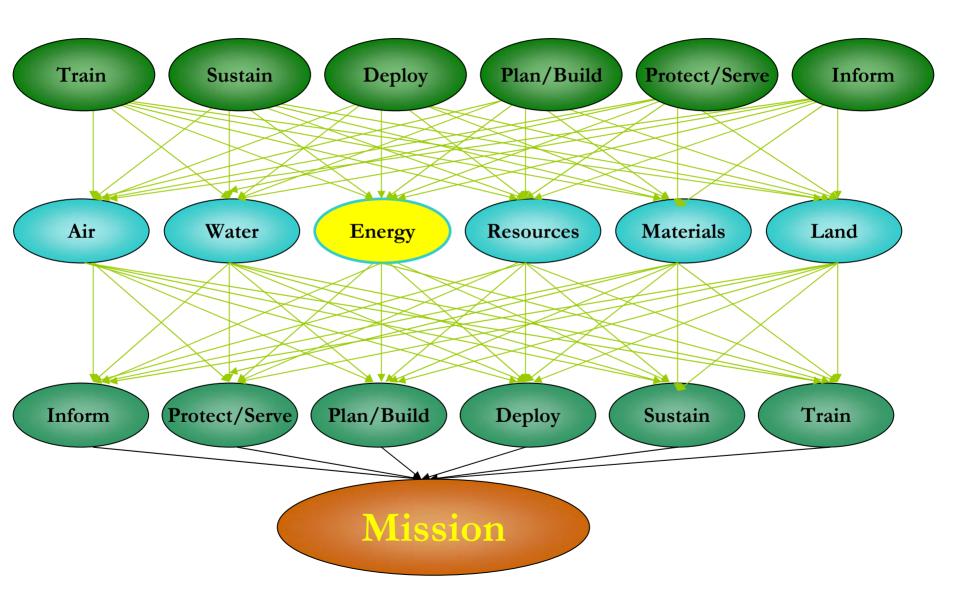


A LOT OF MILITARY CONSTRUCTION!!!

Construction Budget FY06 – FY11 FYDP + BRAC + Modular Force + PMH

FY 06	\$ 248,785,000
FY 07	\$ 261,123,000
FY 08	\$ 480,313,000
FY 09	\$ 651,100,000
FY 10	\$ 323,580,000
FY 11	\$ 146,609,000
PMH	\$ 400,000,000
Other Projects	\$ 469,000,000
TOTAL	\$ 2,980,510,000

Mission



Sustainability is about balance... today and tomorrow



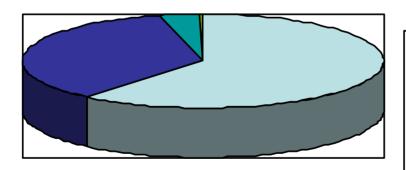
Ft. Bragg

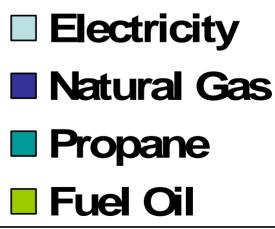
· Current and Projected Energy Cost and Consumption

Fiscal Year	Power Cost	KWh Consumed	Fuel Cost	Fuel Consumed (Btu)	Total Energy Cost
FY 1997	\$23,778,036	438,340,828	\$7,619,382	1,666,823	31,397,418
FY 1998	\$24,956,335	476,981,425	\$8,220,906	1,647,718	33,177,241
FY 1999	\$24,750,153	490,503,048	\$5,951,363	1,497,173	30,701,516
FY 2000	\$22,716,358	496,206,161	\$5,633,156	1,400,196	28,349,514
FY 2001	\$22,864,574	529,185,789	\$10,292,337	1,439,297	33,156,911
FY 2002	\$23,314,405	519,369,320	\$6,027,701	1,208,192	29,342,106
FY 2003	\$24,086,157	528,474,190	\$8,490,921	1,434,586	32,577,079
FY 2004	\$25,687,080	539,470,144	\$10,022,401	1,480,466	35,709,481
FY2005	\$28,149,514	551,127,636	\$12,918,951	1,597,610	41,068,465
FY 2006	\$30,799,213	560,019,278	\$17,509,982	1,338,429	50,291,064
FY 2007	\$42,499,772	722,785,241	\$13,428,071	1,983,536	55,927,843
FY 2008	\$45,315,492	785,636,132	\$14,595,730	2,156,018	59,911,222
FY 2009	\$49,847,041	864,199,745	\$16,055,303	2,371,619	65,902,344
FY 2010	\$51,357,558	890,387,616	\$16,541,827	2,443,487	67,899,385

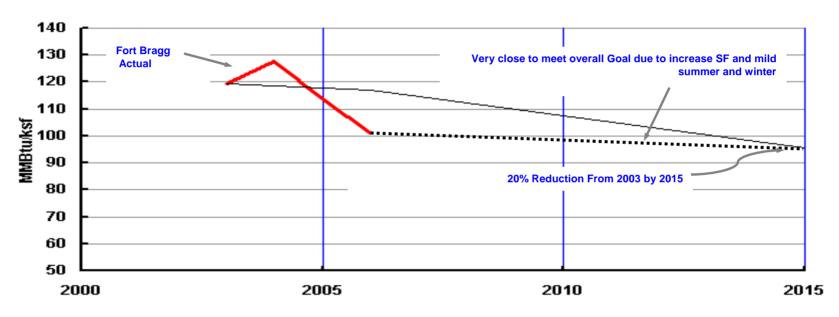
FY06 Energy Bill

Utility	Consumption MMBTU	Consumption %	Cost	Cost %
Electricity	1911	56.31%	\$30,799,213	61.24%
Natural Gas	1338	39.42%	\$17,509,982	34.82%
Propane	134	3.95%	\$1,796,142	3.57%
Fuel Oil	11	0.32%	\$185,726	0.37%
Total	3394	100%	\$50,291,063	100%





FY06 Glide Path



Fort Bragg Energy Reduction Glide Path

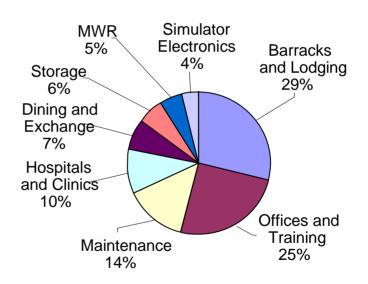
Ft. Bragg Load Profiles

Where did all the Energy go?

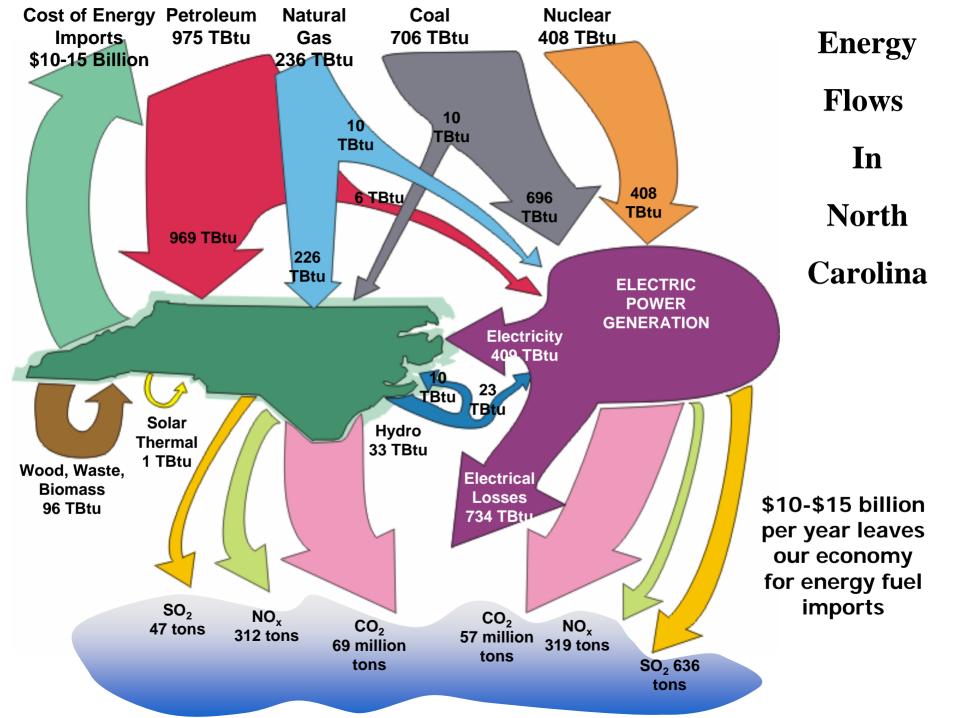
Fort Bragg Energy Use by End-Use

Hot Water 9% Heating 34% Lighting 14% Cooling 17%

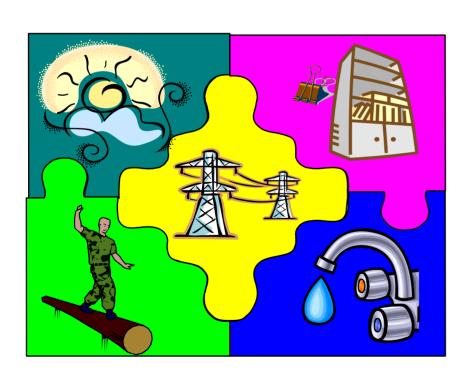
Fort Bragg Energy Use by Building Type



60% of Energy Use is for HVAC



Sustainable Fort Bragg - Baseline Challenges



- > Energy
- **≻Air Quality**
- > Water
- > Materials
- ➤ Training
 Areas

- Alice asked... "would you tell me, please, which way I ought to go from here?"
- "That depends a good deal on where you want to get to," said the Cat.
- "I don't much care where," said Alice.
- "Then it doesn't matter which way you go," said the Cat.

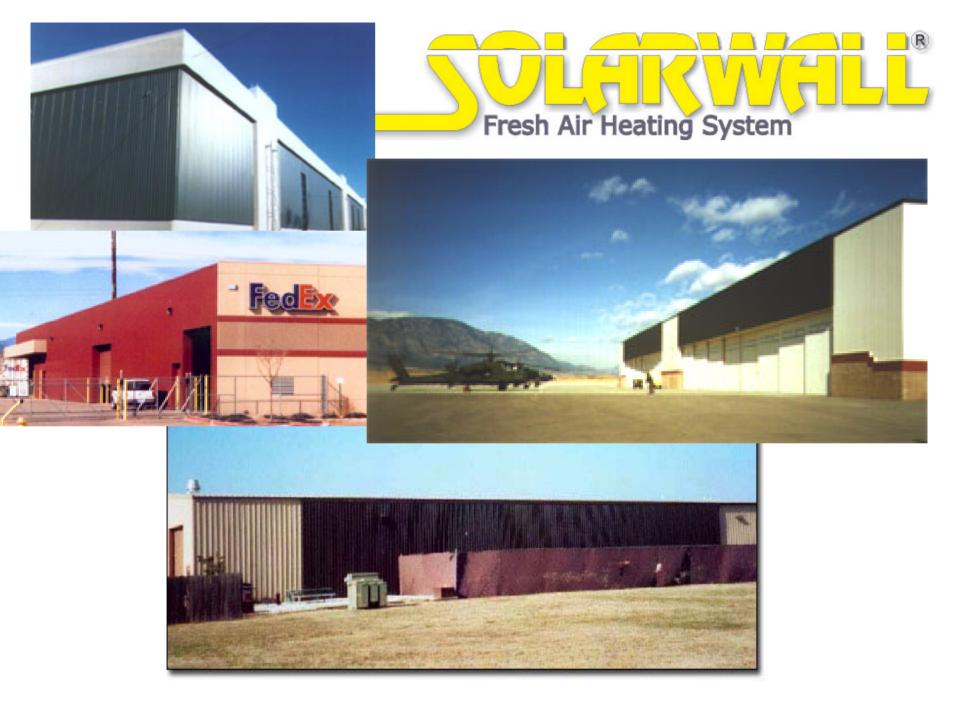
Goal: Transition to reliable and secure renewable energy while aggressively reducing overall demand.

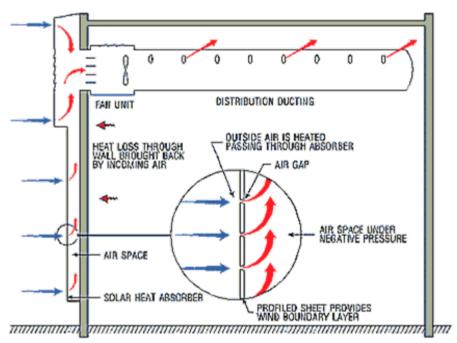
- Objective 1: Eliminate energy inefficiencies that waste natural and financial resources in existing facilities using FY2003 as a baseline (kwh/sqft).
- "How you use it"
- Objective 2: Increase energy efficiency in renovation and new construction.
- "How you construct it"
- Objective 3: Reduce dependency on fossil fuel and increase the use of clean renewable energy.
- "What the source is"
- **Objective 4**: Improve surety and reliability of energy systems to provide dependable utility services.
- "How you protect it"

"Golden" Home of Fort Bragg's Elite Parachute Team











SOLARWALL® Performance and Economics

Operating Efficiency: up to 75%

Estimated RSI value: 9 (R-value: 50)

Annual Energy Savings: \$1- \$6/ft2 (\$10 - \$60/m2)

Estimated Payback Period:

New: 0 - 3 Years

Retrofit: 3 - 8 Years

Active Daylighting Systems

